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PRODUCTION OF 4,4'-DIPYRIDINIUM SALT		
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Requested Patent:	☐ JP62637 <u>34</u>	
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Priority Number(s):		
IPC Classification:	C07D213/22; B01J21/06; B01J23/06	
EC Classification:	•	
Equivalents:	JP3006969B2	
PURPOSE:To selectively produce a 4,4'-dipyridinium salt useful as a synthetic raw material or an intermediate for various chemicals by using a light energy. CONSTITUTION:A 4-cyanopyridinium salt derivative of formula I (R is substitutive alkyl or substitutive benzyl; X<-> is pair anion) is subjected to decyanocoupling reaction by irradiating the derivative with light, preferably ultraviolet rays in the presence of a semiconductor light catalyst to provide the objective 4,4'-dipyridinium salt derivative of formula II, e.g. N,N'- dimethyldipyridinium dichloride. As the semiconductor light catalyst, a semiconductor such as a metal oxide, e.g. titanium oxide, zinc oxide or tungsten oxide, a		
preferably ultraviolet dipyridinium salt deri light catalyst, a semi	et rays in the presence of a semiconductor light catalyst to provide the objective 4, rivative of formula II, e.g. N,N'- dimethyldipyridinium dichloride. As the semiconduct niconductor such as a metal oxide, e.g. titanium oxide, zinc oxide or tungsten oxide.	4'- ctor 3, a
preferably ultraviolet dipyridinium salt deri light catalyst, a semi metal sulfide, e.g. ca phosphide and a me palladium, etc., is ca	et rays in the presence of a semiconductor light catalyst to provide the objective 4, rivative of formula II, e.g. N,N'- dimethyldipyridinium dichloride. As the semiconduc	4'- ctor e, a m

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